## Favipiravir (T-705) protects against Nipah virus infection in the hamster model

Brian E. Dawes<sup>1</sup>, Birte Kalveram<sup>1</sup>, Tetsuro Ikegami<sup>1,2,3</sup>, Terry Juelich<sup>1</sup>, Jennifer K. Smith<sup>1</sup>, Lihong Zhang<sup>1</sup>, Arnold Park<sup>4</sup>, Benhur Lee<sup>4</sup>, Takashi Komeno<sup>5</sup>, Yousuke Furuta<sup>5</sup>, Alexander N. Freiberg<sup>1,2,3,\*</sup>

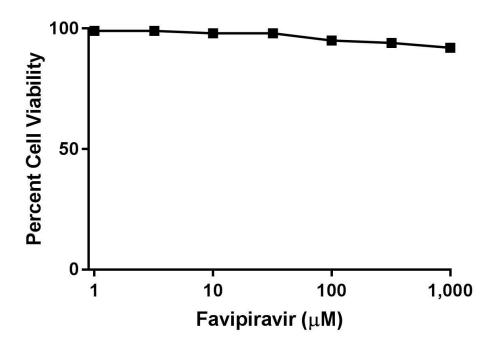
<sup>1</sup>Department of Pathology, University of Texas Medical Branch, Galveston, USA

<sup>2</sup>Center for Biodefense and Emerging Infectious Diseases, University of Texas Medical Branch, Galveston, USA

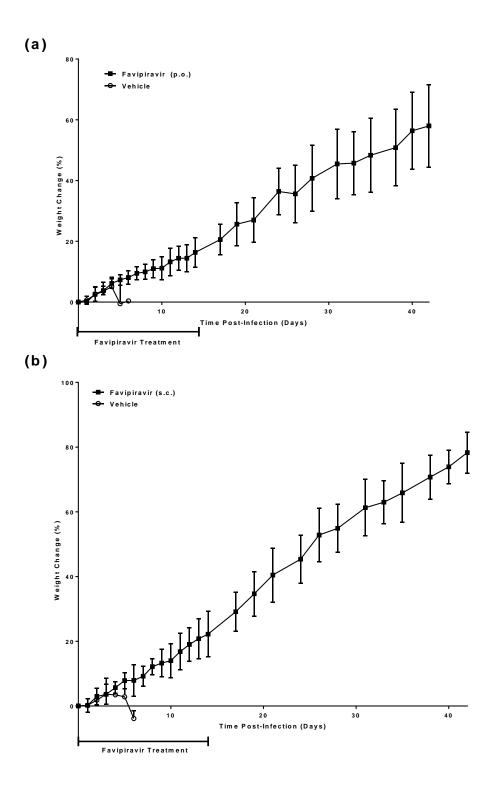
<sup>3</sup>Sealy Center for Vaccine Development, University of Texas Medical Branch, Galveston, USA

<sup>4</sup>Department of Microbiology, Icahn School of Medicine at Mt. Sinai, New York, USA <sup>5</sup>Toyama Chemical Co., Ltd., Toyama, Japan

\*Corresponding author: Alexander N. Freiberg, Department of Pathology, University of Texas Medical Branch, 301 University Boulevard, Galveston, 77555-0609, Tel.: +1-409-772-2882, <a href="mailto:anfreibe@utmb.edu">anfreibe@utmb.edu</a>



Supplemental Figure 1. Vero cells were treated with two-fold dilutions of favipiravir and cell viability was assessed using a neutral red assay.  $CC_{50}$  was determined to be >1,000  $\mu$ M.



**Supplemental Figure 2.** Weights of infected hamsters undergoing **(a)** p.o. or **(b)** s.c. treatments. Weights were monitored daily for all infected animals through day 14 and every other day thereafter.

Group	PRNT <sub>50</sub>	PRNT <sub>90</sub>
Favipiravir p.o.	<20	<20
	80	20
	<20	<20
	1280	320
	<20	<20
Favipiravir s.c.	<20	<20
	80	20
	<20	<20
	80	20
	20	<20

**Supplemental Table 1.** Neutralizing antibody titers from *in vivo* efficacy studies. Serum collected from survivors was gamma irradiated and heat inactivated. Serum was then diluted and incubated with 50PFU NiV-M prior to infection of Vero CCL81 cells. Cells were incubated for 3 days and plaques were quantified for calculations of PRNT<sub>50</sub> and PRNT<sub>90</sub>.